

16/2/2022 7:46:01 AM

GENERAL

1. THE STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE (CBC).
2. ALL REFERENCES AND ASTM SPECIFICATIONS NOTED ON THESE DRAWINGS PERTAIN TO THE LATEST EDITIONS.
3. THE STRUCTURAL DRAWINGS ARE NOT STAND ALONE DOCUMENTS. THEY SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
4. THE CONTRACTOR SHALL COORDINATE THE SIZES AND LOCATIONS OF ALL PENETRATIONS WITH THE ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS.
5. THE CONTRACT STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE A METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEANS NECESSARY TO PROTECT THE STRUCTURE AND PERSONNEL DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT NOT LIMITED TO TEMPORARY BRACING, SHORING, FORMING, SCAFFOLDING, PLANKING, AND SAFETY NETS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
6. DRAWINGS SHALL NOT BE SCALED.
7. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO PROCEEDING WITH WORK. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO FABRICATION/CONSTRUCTION. CONTRACTOR SHALL NOTIFY STRUCTURAL ENGINEER AND ARCHITECT OF ANY DISCREPANCIES PRIOR TO FABRICATION/CONSTRUCTION, ALONG WITH A RECOMMENDED SOLUTION.
8. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
9. WHERE A SECTION OR DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY TO ALL LIKE AND SIMILAR CONDITIONS.

PRE-ENGINEERED BUILDING DESIGN CRITERIA

- THE MANUFACTURER SHALL MEET THE ACCREDITATION CRITERIA FOR INSPECTION PROGRAMS FOR MANUFACTURERS OF METAL BUILDING SYSTEM (AC427)
1. PRE-ENGINEERED BUILDING MATERIAL MANUFACTURER SHALL BE RESPONSIBLE FOR THE ENTIRE DESIGN OF THE STEEL SUPERSTRUCTURE, ROOF, SUPPORT, BRACING, LATERAL ANALYSIS AND ALL RELATED WORK.
 2. THE ENTIRE SUPERSTRUCTURE, SHALL BE DESIGNED IN ACCORDANCE WITH THE BUILDING CODE WIND UPLIFT PRESSURES FOR ENCLOSED AND UNENCLOSED BUILDING AREAS SHALL BE CONSIDERED IN ACCORDANCE WITH THE CODE.
 3. THE PRE-ENGINEERED BUILDING SHALL BE DESIGNED TO SUPPORT SELF WEIGHT PLUS SUPERIMPOSED DEAD, LIVE, WIND AND/OR SEISMIC LOADING (WHICHEVER COMBINATION PRODUCES THE MOST SEVERE CONDITION), IN ACCORDANCE WITH THE LATEST RECOMMENDATIONS OF THE METAL BUILDING MANUFACTURER'S ASSOCIATION.
 4. PRE-ENGINEERED BUILDING MANUFACTURER SHALL DESIGN AND SUPPLY ALL REQUIRED SUB-FRAMING FOR OPENINGS, INCLUDING FRAMING TO SUPPORT THE WEIGHT OF MECHANICAL EQUIPMENT UNLESS SPECIFICALLY CALLED OUT ON PLAN.
 5. ASTM A307 BOLTS SHALL NOT BE USED AS ANCHOR RODS UNLESS SPECIFICALLY AUTHORIZED ON WRITING BY THE ENGINEER.
 6. SEE THE PLANS FOR SPECIFIC REQUIREMENT FOR GIRT SPACING IN FIRE-RATED WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR OTHER REQUIREMENTS.
 7. COLUMN BASE CONNECTIONS SHALL BE DESIGNED AS PINNED CONNECTIONS WITH NO MOMENT TRANSFERRED TO THE FOUNDATION.
 8. PRE-ENGINEERED METAL BUILDING MANUFACTURER SHALL PROVIDE ROLLING DOOR SUPPORTS AND THEIR CONNECTIONS TO FOUNDATION. FOOTINGS WILL BE VERIFIED BASED ON THE REACTIONS FROM THE SUPPORTS.

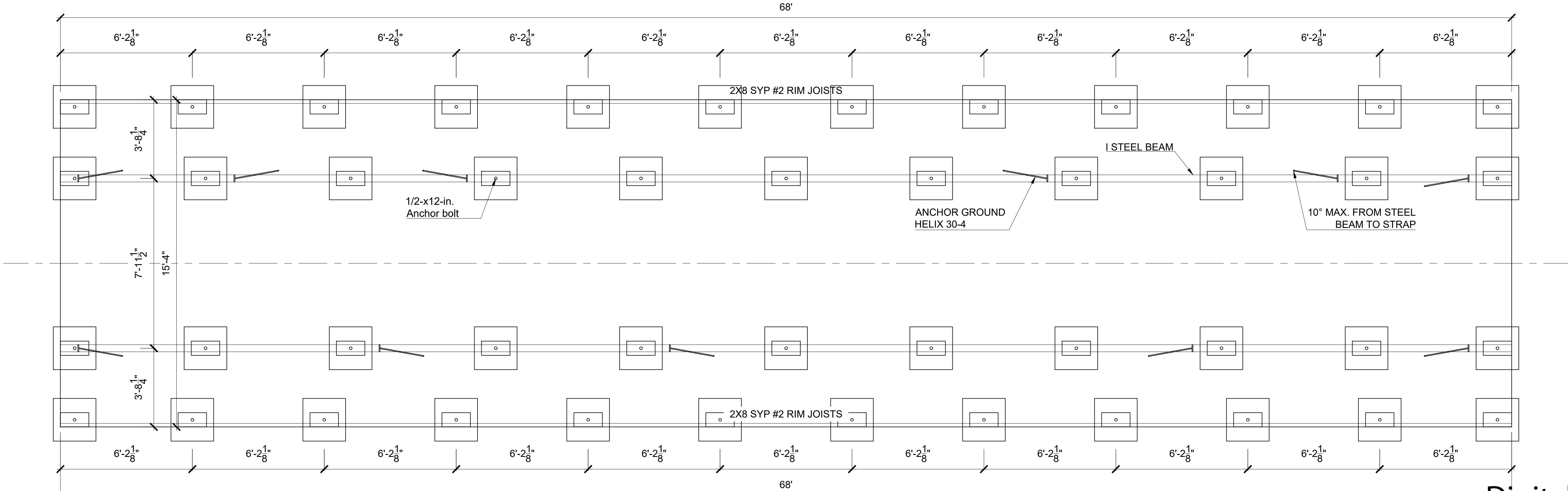
CONCRETE (CAST-IN-PLACE)

1. DESIGN OF CONCRETE IS BASED ON ACI 318. CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 301.
2. CONCRETE SHALL BE NORMAL WEIGHT AND SHALL DEVELOP A MINIMUM 28 DAY COMPRESSIVE STRENGTH AS FOLLOWS: CONCRETE PIERS.....3000 PSI
3. CONCRETE REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI315 AND ACI 318. REINFORCING SHALL CONFORM AS FOLLOWS:
 - REINFORCING STEEL.....ASTM A615 GRADE 60 WELDED WIRE
 - REINFORCING (WWR).....ASTM A185
 - DOWELS.....ASTM A615 GRADE 60
 - DOWELS.....ASTM A663 GRADE 60
4. ALL TENSION SPLICES INCLUDING THOSE BARS NOTED AS CONTINUOUS SHALL BE CLASS B IN ACCORDANCE WITH ACI 318. SPLICES SHALL BE STAGGERED WHERE POSSIBLE.
5. WELDED WIRE REINFORCING SHALL BE PROVIDED IN FLAT SHEETS AND LAPPED A MINIMUM OF TWO FULL PANELS AND TIED ON EACH SIDE.
6. UNLESS INDICATED OTHERWISE, CONCRETE COVER OVER REINFORCEMENT SHALL BE AS FOLLOWS:
 - CONCRETE NOT EXPOSED TO EARTH OR WEATHER FOR #11 BARS OR SMALLER (SLABS, WALLS, JOISTS).....3/4"
 - BEAMS AND COLUMNS.....1 1/2"
 - CONCRETE EXPOSED TO EARTH OR WEATHER FOR #5 BARS OR SMALLER (INCLUDING WWR).....1 1/2"
 - FOR #6 BARS OR LARGER.....2"
 - CONCRETE CAST DIRECTLY AGAINST EARTH.....3"
7. ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS AND OTHER INSERTS AND EMBEDS SHALL BE SECURED IN POSITION, INSPECTED AND APPROVED PRIOR TO PLACING CONCRETE. REINFORCEMENT IN

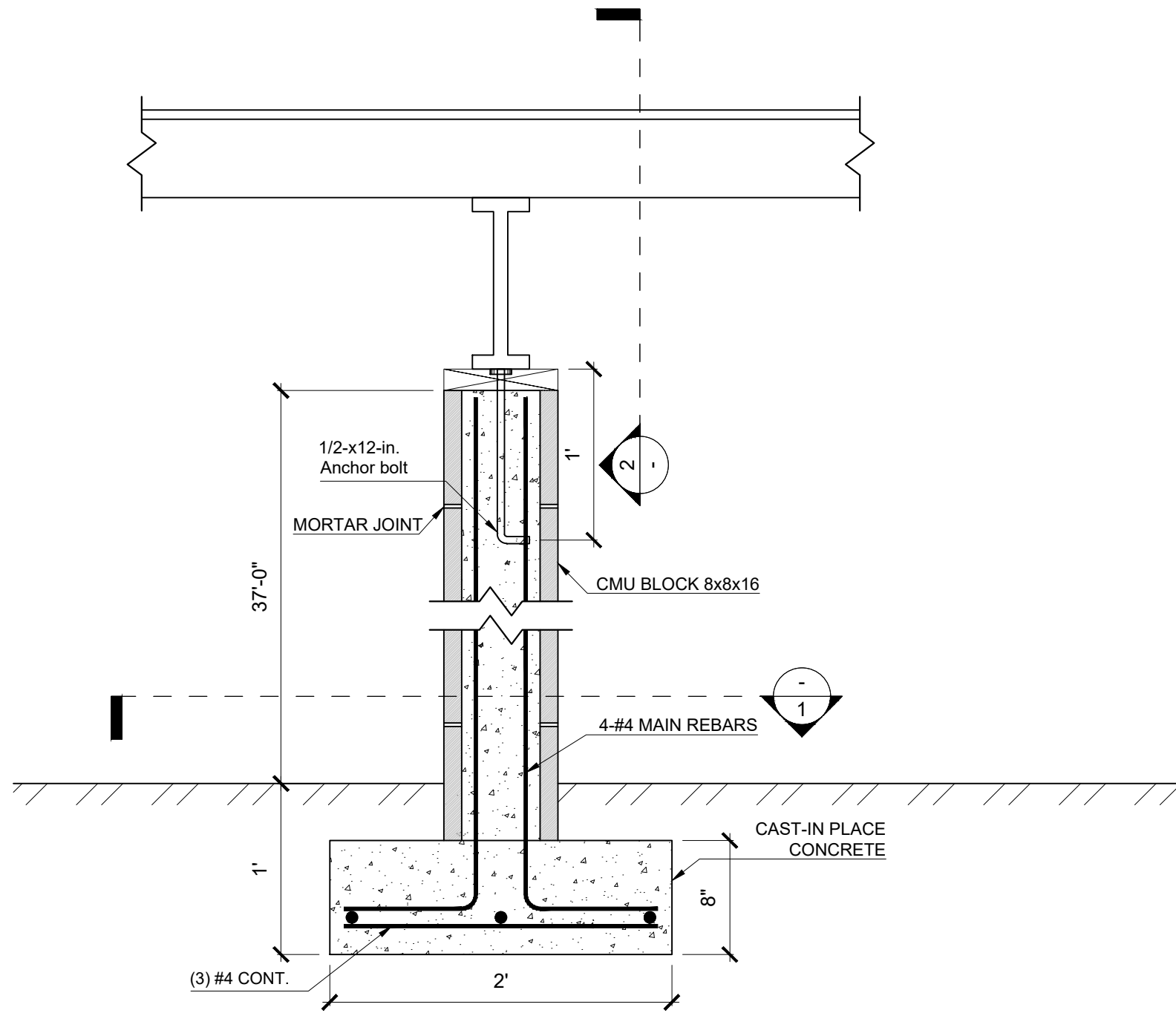
- SLABS AND SLAB ON GRADE SHALL BE PLACED ON CHAIRS AT 36" MAX IN EACH DIRECTION. DOWELS SHALL NOT BE INSERTED INTO FRESHLY PLACED CONCRETE.
8. REINFORCING BARS AND ACCESSORIES SHALL NOT BE IN CONTACT WITH ANY PIPE, PIPE FLANGE OR METAL PARTS EMBEDDED IN CONCRETE. A MINIMUM OF 2 INCHES CLEARANCE SHALL BE PROVIDED.
 9. ADDITIONAL REINFORCING (SEE TYPICAL DETAILS) SHALL BE PROVIDED AT THE FOLLOWING:
 - REENTRANT CORNERS
 - PENETRATIONS
 10. ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 3/4"
 11. CONCRETE REINFORCEMENT SHALL NOT BE WELDED UNLESS APPROVED BY THE ENGINEER OF RECORD
- DESIGN CRITERIA - CODES AND SPECIFICATIONS**
1. 2020 FLORIDA RESIDENTIAL CODE (CRC)
 2. 2020 FLORIDA BUILDING CODE (CBC)
 3. ASCE 7-16: MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES
 4. ACI 318-19: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE

FOUNDATIONS :

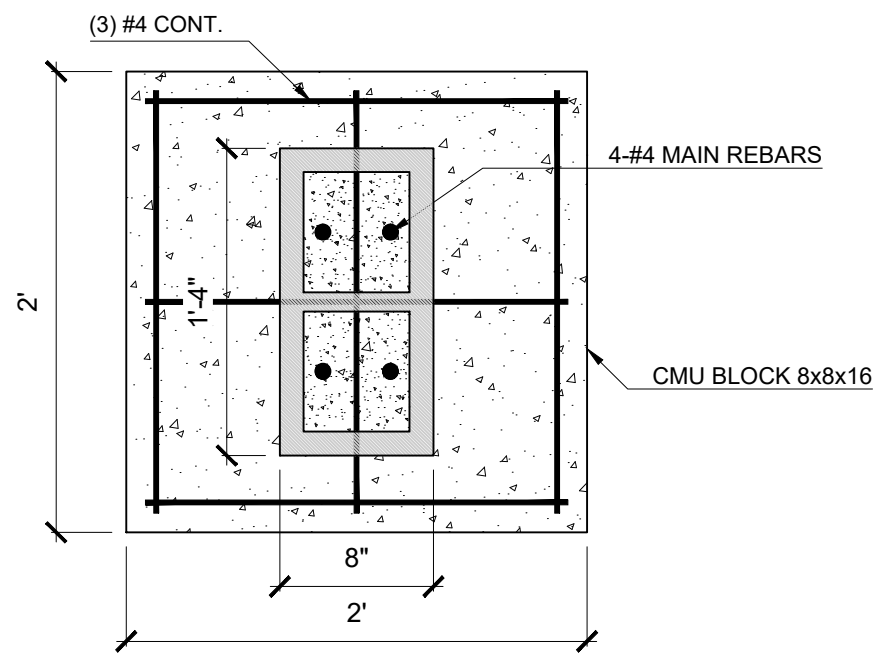
1. THE FOUNDATION DESIGN ARE BASED ON 2000 PSF BEARING
2. PRESSURE ASSUMPTION AND 100 PCF MODULUS OF SUBGRADE REACTION. FOOTING SHALL BEAR ON SUITABLE RESIDUAL SOIL A MINIMUM OF 18" BELOW ADJACENT FINISHED EXTERIOR GRADES.
3. FOUNDATION SIDES SHALL NOT BE EARTH FORMED.
4. CONTRACTOR SHALL TO VERIFY ALL DIMENSIONS & ELEVATIONS WITH MANUFACTURER PLAN PRIOR TO START ANY WORK



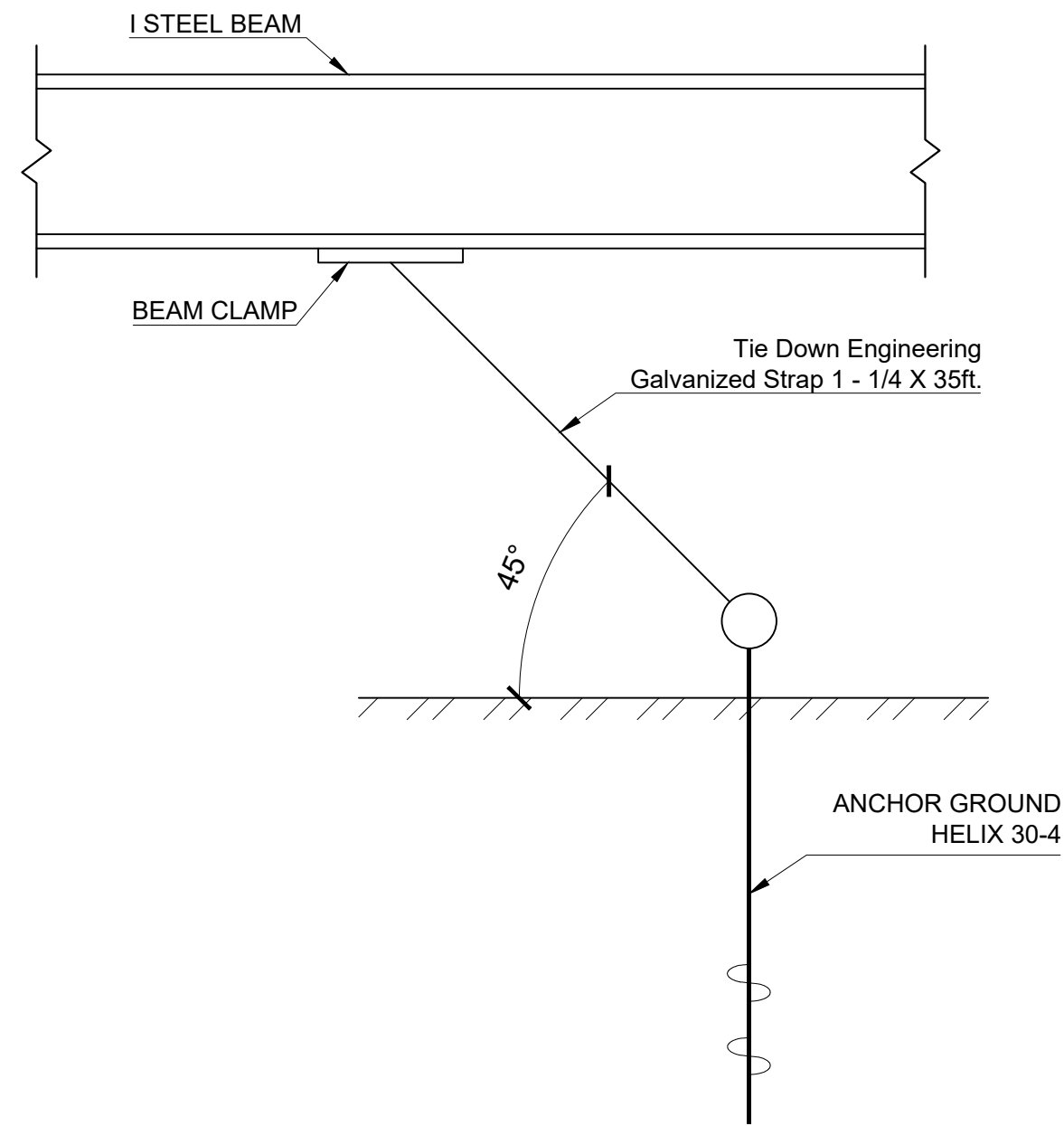
FOUNDATION PLAN
SCALE 3/8" = 1'-0"



FOUNDATION DETAIL
SCALE 1-1/2" = 1'-0"



SECTION 1
SCALE 1-1/2" = 1'-0"



SECTION 2
SCALE 1" = 1'-0"

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CLARENCE PENDER

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STAMP

PROJECT #:

DRAWN BY:

Revision Schedule		
Number	Description	Date

SHEET NAME

FOUNDATION PLAN

SHEET NUMBER

S100